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(54) LUBRICATION MECHANISM FOR PISTON PIN
AND SNAP RING

(57) Abstract:

PURPOSE: To make it possible to form a piston pin from a ceramic, by providing a pin boss so as to allow a lubricating oil in a cylinder or a piston to flow toward a snap ring retaining groove.

CONSTITUTION: In the operation of a piston 11, a lubricating oil scraped by an oil scraper ring 16b is allowed to flow from a ring groove 17b through an oil passage 18 passing through a pin boss 12 into a snap ring retaining groove 14. The oil is joined with a lubricating oil flowing along a ceramic piston pin 13 formed of a silicon nitride sintered material or the like, thereby lubricating a contact portion between a snap ring 15 and the piston pin 13. Accordingly, although the piston pin is formed of a ceramic, an inexpensive conventional snap ring may be used. Additionally, the wear of the pin boss may be reduced.

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